



CONSTRUCTION EQUIPMENT

At left is a crawler crane; the photo at right shows a tower-mounted gantry crane; and above is a wheeled rope truck crane. These are examples of the Link-Belt® line of cranes, excavators and diesel pile hammers manufactured by FMC Corporation's Construction Equipment Group, Cedar Rapids, Iowa. The company conducts extensive proof lift tests and computerized analysis to insure that the cranes can lift rated capacity loads up to one million pounds in a wide range of applications.

In their analysis work, FMC engineers make use of a computer program supplied by NASA's Computer Software Management and Information Center (COSMIC)®. Called Analysis of Beam Columns, the program is used as part of the required analysis for determining bending moments, deflections and critical loads for latticed crane booms.

In the interests of national productivity, COSMIC helps U.S. industry reduce automation costs through secondary use of previously developed computer programs. COSMIC maintains a large library of programs originally developed by NASA, the Department of Defense and other technology generating agencies of the government. These programs can be adapted to a broad spectrum of business and industrial applications, enabling users to save time and money by taking advantage of COSMIC's service.

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